

## Frederik J Simons fjsimons@princeton.edu/www.frederik.net

Positions	2017–present 2013–2017 2006–2013	Professor of Geosciences; Associate Professor of Geosciences, with tenure; Assistant Professor of Geosciences, Princeton University;
	2016–2020 2012–present 2010–2013	Executive Committee Member, Program in Archaeology; Associated Faculty, Program in Applied & Computational Mathematics; Dusenbury Preceptor of Geological and Geophysical Sciences, Princeton U.
	2010–2017 2014–2015 2013 2012 2011 2010 2009 2008	<ul> <li>Visiting Fellow, KU Leuven (Earth &amp; Environmental Sciences);</li> <li>Visitor, Institute for Advanced Study (Astrophysics &amp; Cosmology);</li> <li>Visitor, U. Cambridge (Bullard Laboratories);</li> <li>Visitor, U. L. Bruxelles (Applied Mathematics);</li> <li>Visiting Fellow, University College London (Statistical Science);</li> <li>Visitor, V. U. Brussel (Mathematics);</li> <li>Visiting Professor, Institut de Physique du Globe de Paris (Planetary Science);</li> <li>Visiting Professor, Eidgenössische Technische Hochschule Zürich (Geophysics).</li> </ul>
	2004-2007	Lecturer of Geophysics, University College London (UCL).
	2002–2004	Beck Postdoctoral Teaching Fellow, Council on Science & Technology; Hess Postdoctoral Fellow, Geosciences Department, Princeton University.
	2002 1996–2002	Postdoctoral Research Associate; Research & Teaching Assistant, Earth, Atmospheric & Planetary Sciences, Massachusetts Institute of Technology (MIT).
Degrees	1996–2002	Massachusetts Institute of Technology, Cambridge, MA; Doctor of Philosophy with thesis in Geophysics.
	1992–1996	Katholieke Universiteit Leuven, Belgium; Kandidaat & Licentiaat with thesis in Geology; Grootste onderscheiding (summa cum laude).
	1980–1992	Onze-Lieve-Vrouwecollege Jesuit School, Antwerpen, Belgium; Humaniora, Latin & Greek. Primus perpetuus.

**RESEARCH** I am a geologically inspired, geophysically educated, computationally motivated and mathematically minded *geoscientist* interested in the seismic, mechanical, thermal and magnetic properties of the Earth's lithosphere — and of the terrestrial planets and moons. I enjoy analyzing complex, large, and heterogeneous geophysical data sets, and design theoretical and computational inverse methods and statistical techniques to be able to do so — especially for partially observed processes modeled on a sphere. No amount of sophistication can cure a fundamental data limitation: I am developing floating hydrophones to open up the sparsely instrumented oceanic domains for global tomography.

PAPERS	ResearcherID: A-3427-2008. OrcID: 0000-0003-2021-6645. ScopusID: 7102927367. Reprints: http://geoweb.princeton.edu/people/simons/reprints.html BibTeX: http://geoweb.princeton.edu/people/simons/fjspubs.html arXiv: http://arxiv.org/find/all/1/au:+Simons_F/0/1/0/all/0/1			
Awards	2014–2019 2016 2012	Fellow of the Faculty of Sciences, KU Leuven; Outstanding Reviewer, Geophysical Journal International; National Science Foundation CAREER Award:		
	2008 2005 2004 2002 2001	Prix quadriennal <i>Charles Lagrange</i> , Académie Royale de Belgique; Nuffield Foundation Newly Appointed Lecturer Award; Editors' Citation for Excellence in Refereeing, JGR-Planets, AGU; Beck Fellowship, Council on Science & Technology, Princeton; Outstanding Student Paper Award, Seismology Section, AGU;		
	1998 1997&1998 1997 1996–2001 1996–1997 1996–1997	Victor J. DeCorte Fellowship, MIT; Teaching Assistant Excellence Awards, EAPS, MIT; Biennial prize for an M. Sc. thesis in geology, Katholieke Universiteit Leuver Fulbright Fellowship, Commission for Educational Exchange; Honorary Fellowship, Belgian-American Educational Foundation; Ambassadorial Scholarship, Rotary International Foundation.	1;	
Seminars	Invited Lectures in Academic Geoscience Departments: Invited Lectures in Various Other Departments & Outreach Events: Invited Conference Presentations: Co-Organizer of International Meetings & Special Sessions :		79 39 46 21	
Service	Editorial	Associate Editor, <i>Geophysical Journal International</i> , since 2017; Advisory Board, <i>Springer Geosystems Mathematics</i> Books, since 2014; Editor, <i>International Journal on Geomathematics</i> , since 2010; Editorial Advisory Board, <i>Journal of Geodetic Science</i> , since 2010; Editorial Advisory Board, <i>Earth &amp; Planetary Science Letters</i> , since 2007; Associate Editor, <i>J. Geophysical Research (Solid Earth)</i> , 2004–2009.		
	Refereeing	272 papers and proposals for 52 journals and organizations.		
	Community	Member, <i>Comput. Infrastructure Geodyn.</i> Executive Committee, since 2016; Member, <i>EarthScope</i> Education and Outreach SubCommittee, since 2014; Co-organizer, AGU Meeting of the Americas, <i>Tectonophysics</i> (2009–2010); Alternate Representative, <i>Incorporated Research Institutions for Seismology</i> ; Alternate, <i>COnsortium for Materials Properties Research in Earth Sciences.</i>		
	Princeton	Doctoral Exam Committees: General Exam Committees: Senior Theses Advised: Junior Papers Advised:	17 30 6 8	
	External	Doctoral Exam Committees: Master's Degree Exam Committees:	14 3	